REMARKS

Applicants assert that the Notification of Defective Response mailed February 14, 2002 was issued in error. Applicants further assert that the response to the Notification of Missing Requirements Under 35 U.S.C. 371 in the United States Designated/Elected Office (DO/EO/US) mailed 21 June 2001 was complete as submitted October 22, 2001, since Box 5 was not checked (see enclosed copy).

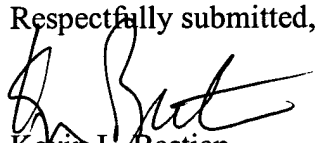
Applicants request entry of this amendment in adherence with 37 C.F.R. §§1.821 to 1.825. This amendment is accompanied by a floppy disk containing the above named sequences, SEQ ID NOS:1-3, in computer readable form, and a paper copy of the sequence information which has been printed from the floppy disk.

The information contained in the computer readable disk was prepared through the use of the software program "PatentIn" and is identical to that of the paper copy. This amendment contains no new matter.

Attached hereto is a marked-up version of the changes made to the Specification by the current Amendment. The attached pages are captioned "**VERSION WITH MARKINGS TO SHOW CHANGES MADE.**"

If the Examiner believes a telephone conference would expedite prosecution of this application, please telephone the undersigned at 415-576-0200.

Respectfully submitted,



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VERSION WITH MARKINGS TO SHOW CHANGES MADE

In the Specification:

Paragraph beginning at line 22 of page 40 has been amended as follows:

Isolation of mouse C2 GlcNAcT genomic DNA and construction of a targeting vector bearing Cre *lox*P recombination signals was accomplished similarly as described (Priatel *et al.* (1997) *Glycobiology* 7: 45-56). R1 ES cells (Nagy *et al.* (1993) *Proc. Nat'l Acad. Sci. USA* 90: 8424-8428) were electroporated with 10 μg of the linearized targeting construct and the resulting clones were screened by Southern blotting using the genomic probe. Targeted ES cells were electroporated with 5 μg of Cre expression plasmid and subclones bearing the C2 GlcNAcT$^{\Delta}$ and C2 GlcNAcT^{F} alleles were isolated. C2 GlcNAcT$^{\Delta}$ and C2 GlcNAcT^{F} chimeric mice were generated using standard techniques (Metzler *et al.* (1994) *EMBO J.* ~~EMBO J.~~ 13: 2056-2065) and were crossed into the C57BL/6 background for the generation of heterozygous offspring. C2 GlcNAcT allelic structure was analyzed by Southern blotting and PCR. The wild type C2 GlcNAcT allele was detected using PCR primers adjacent to the deleted region (W5': 5'-GGG TTA CGG ATG AGCTCT GTG TC-3' (SEQ ID NO:1) ~~5'-GGG TTA CGG ATG AGCTCT GTG TC~~ and W3': 5'-CCC TGG AAG CAG GAC AAT TCT G-3' (SEQ ID NO:2)) resulting in a 304 bp fragment, while the mutant allele was detected using W5' and a *lox*P primer (M3': 5'-CTC GAA TTG ATC CCC GGG TAC-3' (SEQ ID NO:3)) yielding a 200 bp fragment.